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Data Sheet

August 15, 2026

JDS UNIPHASE

JDS Uniphase S182K

JDSU Fitel S182K High Strength Fusion Splicer for Dissimilar Fibers The Fitel/JDSU S182K isaprofile-alignment (PAS) core-alignment fusion splicer for dissimilar specialty fibers. OEM S182A/K data sheet lists SM/MM/DS/EDF dissimilar pairs, typical splice loss 0.03 dB SM / 0.02 dB MM / 0.05 dB DS, 20 s typical SM splice time, 300 kpsi high-strength capability, 3-5 mm cleave for 250/400 um coating, 180 × 260 × 160 mm and 7.5 kg. High-strength splicing of dissimilar mode-field-diameter specialty fibers in the lab and factory. The Fitel/JDSU S182K isaprofile-alignment (PAS) core-alignment fusion splicer for dissimilar specialty fibers. OEM S182A/K data sheet lists SM/MM/DS/EDF dissimilar pairs, typical splice loss 0.03 dB SM / 0.02 dB MM / 0.05 dB DS, 20 s typical SM splice time, 300 kpsi high-strength capability, 3-5 mm cleave for 250/400 um coating, 180 × 260 × 160 mm and 7.5 kg. High-strength splicing of dissimilar mode-field-diameter specialty fibers in the lab and factory. PAS core alignment for dissimilar fiber pairs



MODEL

**JDS Uniphase
S182K**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

S182K

LISTING

<https://aumictechlabs.com/products/s182k-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDS Uniphase S182K is a fusion splicer engineered for high-strength fiber optic splices across dissimilar fiber pairs. Using Profile Alignment System (PAS) core alignment, it accommodates Single Mode, Multimode, Dispersion Shifted, and Erbium-Doped fibers with typical splice losses of 0.03 dB (SM), 0.02 dB (MM), and 0.05 dB (DS). The unit achieves average tensile

strength of 300 kpsi with appropriate high-strength accessories and completes SM fiber splices in approximately 20 seconds. Technical Specifications Splicing Method: Profile Alignment System (PAS) with core alignment and V-groove fiber positioning Applicable Fibers: Single Mode (SM), Multimode (MM), Dispersion Shifted (DS), Erbium-Doped Fiber (EDF) - dissimilar fiber pairs Average Splice Loss: SM 0.03 dB; MM 0.02 dB; DS 0.05 dB Splice Time: 20 seconds typical for SM fiber Tensile Strength: 300 kpsi average (Fitel laboratory, with high-strength accessories) Cleave Length Requirements: 3–5 mm for 250/400 μ m coating (high strength); 11 mm or 16 mm for 900 μ m coating Splice Programs: 26 pre-programmed slots plus 6 customizable slots; additional custom programs available upon request Splice Memory: 400 splice storage capacity Protection Sleeve Heating: 4 pre-programmed settings (20, 25, 40, 60 mm sleeves) plus 4 customizable slots Tension Test Capability: 200 g Monitor: 5-inch color display, 264 $\times$ magnification Inspection Functions: Cleave angle, fiber end gap, core eccentricity, offset, tilt, micro-bending, bubbling, thickening, streaking Environmental Sensors: Air pressure, temperature, humidity Data Interface: RS232C (D-sub 9 pins male) Illumination: LED splice chamber lighting Power Supply: AC 100–120 V or 200–240 V Operating Range: –10 °C to +50 °C Storage Range: –40 °C to +60 °C Dimensions: 180 mm (W) $\times$ 260 mm (D) $\times$ 160 mm (H) Weight: 7.5 kg Languages: GB, D, F, I, E, CZ, NL, DK, RUS, P, S, FIN, JP, Chinese, Korean Key Features Rectangular footprint with flat top allows direct workbench integration Rear-mounted keypad and monitor preserve unobstructed access to splice chamber and protection sleeve oven High-strength accessory design prevents bare fiber contact with V-grooves, ensuring consistent tensile strength results Remote control via PC software enables hands-free operation Real-time monitor display throughout splice cycle Compatibility & Integration The S182K addresses dissimilar fiber splicing requirements where the S182A model (designed for similar fiber pairs) is insufficient. RS232C communication supports integration into automated inspection and archival systems.

S182K Characteristics / Specifications

PARAMETER	VALUE
Model	S182K
Instrument Type	Fusion splicer
Splicing Method	Profile Alignment System PAS core alignment
Applicable Fibers	SM MM DS EDF dissimilar fiber pairs
Average Loss Sm	0.03 dB
Average Loss Mm	0.02 dB
Average Loss Ds	0.05 dB
Splice Time Typical Sm	20 s (varies with fiber type)
Cleave Length High Strength	3 to 5 mm for 250/400 um coating
Cleave Length 900 Um	16 mm or 11 mm (not high strength)
Tensile Strength	average 300 kpsi in Fitel laboratory
Splice Programs	26 pre-programmed plus 6 customizable slots
Splice Memory	400 splices
Heater Time	90 s protection
Heater Programs	4 pre-programmed (20 25 40 60 mm sleeves) plus 4 custom
Tension Test	200 g
Monitor	5 inch color 264x magnification
Dimensions	180 mmWx 260 mmDx 160 mmHMass: 7.5 kg
Sensors	air pressure temperature humidity
Data Port	RS232C D-sub 9 pin male
Sibling Attenuator Model	S182A similar pairs plus attenuation to 20 dB
Manufacturer	Fitel JDS Uniphase
Attenuation	to 20 dB
Humidity	Data Port: RS232C D-sub 9 pin male

S182K Specifications

PARAMETER	VALUE
Key Features	PAS core alignment for dissimilar fiber pairs
Rear keypad and 5 inch color monitor at 264x	S182A sibling adds attenuation splicing to 20 dB
Technical Specifications	Model: S182K

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From Fitel S182A/K High Strength Fusion Splicer data sheet. S182K is the dissimilar-fiber model; S182A is similar-fiber plus attenuation. Confirm electrode and V-groove kit on the unit.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.